

FIG. 1

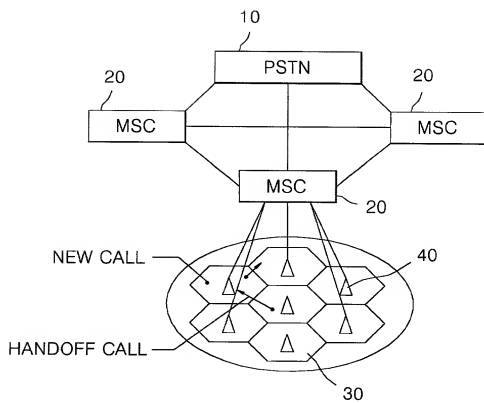


FIG.2

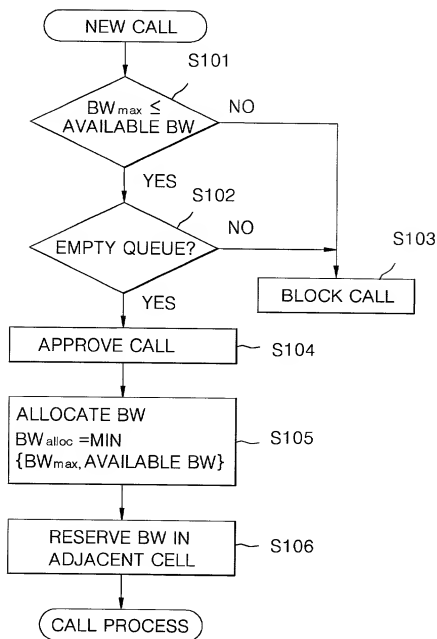


FIG.3

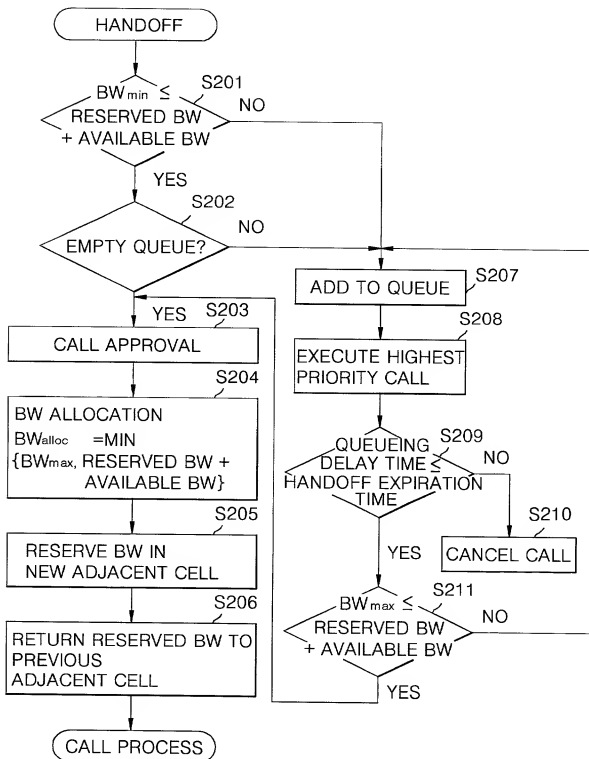
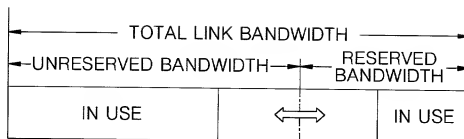


FIG.4

(a)



(b)

```

Monitor(CB_THRESHOLD, HB_THRESHOLD, time_interval)
{
    while(TRUE) {
        wait(time_interval); CB_MEASUREMENT, HD_MEASUREMENT CALCULATION;
        if (CB_MEASUREMENT > CB_THRESHOLD && HD_MEASUREMENT < HD_THRESHOLD )
            BW_RESERVED = MIN(down * BW_RESERVED, BW_RESERVED + BW_AVAILABLE)
        else if (CB_MEASUREMENT < CB_THRESHOLD && HD_MEASUREMENT > HD_THRESHOLD )
            BW_RESERVED = MIN(up * BW_RESERVED, BW_RESERVED + BW_AVAILABLE)
        else if (CB_MEASUREMENT < CB_THRESHOLD && HD_MEASUREMENT < HD_THRESHOLD )
            No Adaptation
        else if (CB_MEASUREMENT > CB_THRESHOLD && HD_MEASUREMENT > HD_THRESHOLD )
            CELL splitting
        endif;
    }
}
    
```